

Attorney Docket No. 35-95-010.1

APPLICATION FOR U.S. PATENT UNDER 37 C.F.R. § 1.53 (b)

Transmittal Form





Sir:

	Transmitted herewith for filing is the continuation patent application	n of prior	Application
No.	08/673,986, which is hereby incorporated by reference therein:		

Inventor or A	application	Identifier
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Dale S. Howard et al.

Entitled:

Electronic Publication Distribution Method and System

Enclosed are:	
X X X	Specification, Claims and Abstract (31_ total pages) Drawing(s) (4_ total sheet(s) of X_ formal informal) Combined Declaration and Power of Attorney (4_ total pages) Newly executed (original or copy) X Copy from a prior application (for continuation/divisional only) X Incorporation By Reference- The entire disclosure of the prior application, from which the copy of the Declaration is supplied, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference herein.
<u>X</u>	The invention is assigned of record to Electronic Data Systems Corporation, a Texas Corporation, Reel No. 8072, Frame No. 0925. The merger of Electronic Data Systems Corporation, a Texas corporation into Electronic Data Systems Corporation, a Delaware Corporation, is recorded at Reel 8821, Frame 0474.
X	Information Disclosure Statement (IDS) PTO-1449 Copies of IDS Citations
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X	Other: The original power of attorney in the parent application was subsequently supplemented with an associate power, a copy of which is enclosed.
Applicant is:	
X	Large Entity
	Small Entity
	Small Entity Statement enclosed
	Small Entity Statement filed in prior application.
	Status still proper and desired.

CLAIMS	(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) CALCULATIONS
	TOTAL CLAIMS	2-20=	0	x \$ <u>18.00</u> =	\$.00
	INDEPENDENT CLAIMS	2 - 3 =	0	x \$ <u>78.00</u> =	\$.00
	MULTIPLE DEPENDENT CLAIMS (if applicable) (37 CFR 1.16(d))			x \$ <u>270.00</u> =	\$.00
		BASIC FEE	\$ 760.00		
	Total of above Calculations =		f above Calculations =	\$ 760.00	
	Reducti	Reduction by 50% for filing by small entity (Note 37 CFR 1.9, 1.27, 1.28).			
				TOTAL =	\$ 760.00

Enclosed is a check in the amount of \$_____ to satisfy filing fee requirements under 37 C.F.R. §1.16.

X Please charge filing fee and any additional fees or credit any overpayment to Deposit Account No. 05-0765. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Date: December 8, 1999

L. Joy Griebenow Registration No. 33,704 Attorney for Applicants

Correspondence Address: ELECTRONIC DATA SYSTEMS CORPORATION 5400 Legacy Drive, M/S H3-3A-05 Plano, Texas 75024 (972) 605-5567

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Dale S. Howard, et al.

Serial No.:

unknown

Filing Date:

December 8, 1999

Group Art Unit:

unknown

Examiner:

unknown

Title:

Electronic Publication Distribution

Method and System

Box Patent Application

Assistant Commissioner for

Patents

Washington, D.C. 20231

Dear Sir:

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I hereby certify that this paper or fee is being deposited with the United States Postal Service Express Mail "Post Office to addressee service" under 37 CFR 1.10 on the date indicated above and is addressed to Assistant Commissioner for Patents, Washington, DC 20231

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PRELIMINARY AMENDMENT

Applicants respectfully request the Examiner preliminarily amend the above-identified patent application, which is a continuation of parent patent application serial number 08/673,986, filed July 1, 1996, as follows.

IN THE SPECIFICATION

Page 1, lines 3,4 and 5 delete "Application Serial No.
______, filed on ______ " and insert --Issued Patent No.
5,850,520 issued on December 15, 1998--.

Page 1, line 7 delete "Receipt," pending." and insert -- Receipt." --.

IN THE CLAIMS

For the convenience of the Examiner, all claims remaining in this Application are reproduced below. Please amend the claims as follows:

Please cancel Claims 1-6 without prejudice or disclaimer.

7. [The method of Claim 1, wherein the electronic publication outputs an] A method for advertising in an electronic publication, comprising:

<u>creating an electronic publication which includes at least</u>
<u>one content item and at least one advertising item;</u>

permitting a user to access the electronic publication;
and

presenting the advertising item to [a] the user of the electronic publication after the passage of a predetermined amount of time during which the electronic publication has been in use.

8. [The method of Claim 1, wherein the electronic publication

outputs an] A method for customizing advertising in an electronic publication, comprising:

creating an electronic publication which includes a plurality of content items and at least one advertising item;

permitting a user to access the electronic publication;

presenting the advertising item to [a] the user of the
electronic publication in response to the access of a specific
content item.

Please cancel claims 9-23 without prejudice or disclaimer.

REMARKS

The claims which issued in the parent application, serial number 08/673,986, filed July 1, 1996, were constructively elected for prosecution. Applicants now desire to proceed with prosecution of non-elected claims 7 and 8, and hereby request their examination and consideration in this continuation application.

An Information Disclosure Statement pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98 is enclosed herewith. Applicants believe that all claims are patentable over the art of record.

Applicants respectfully request consideration and allowance of all pending claims.

Respectfully submitted,

Date: Dec. 8, 1999

L. Jøy Griebeno Reg. No. 33,704

Attorney for Applicants

Send Correspondence to:

L. Joy Griebenow, Esq. Electronic Data Systems Corporation Legal Affairs, MS H3-3A-05 5400 Legacy Drive Plano, Texas 75024

ELECTRONIC PUBLICATION DISTRIBUTION METHOD AND SYSTEM

CROSS-REFERENCE TO RELATED APPLICATION This application is related to U.S. Application Serial No. ______, filed on ______ by L. Joy Griebenow, et. al. and entitled "Method and System For Electronic Publication Distribution Including Return Receipt," pending.

TECHNICAL FIELD OF THE INVENTION

This invention relates generally to electronic publications and more particularly to a method and system for distributing electronic publications using a computer network, wherein the publications may include customized advertising.

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BACKGROUND OF THE INVENTION

As the use of the Internet and dial-up computer services have increased, publishers have begun to seek new ways to sell their published works. Various publishers have started creating on-line versions of their magazines that are available through a dial-up service such as America Online. To read one of these online magazines, a consumer typically signs on to the dial-up service and reads the magazine while connected to the service.

These on-line magazines, however, have disadvantages. A consumer that is on-line reading an online magazine has to pay for the time that he is on-line. These time charges can cause an electronic magazine to exceed the newsstand price of that magazine. Most interactive versions of magazines also do not carry advertisements. Without advertisements, the publisher of the magazine loses a potential source of revenue and advertisers are cut off from consumers. Also, many consumers utilizing dial-up services only have a single phone line, so reading the on-line magazine ties up the consumer's phone line. Accessing on-line magazines may also be inconvenient as a consumer may have to proceed through a number of steps required by the on-line service each time he desires to read the on-line magazine.

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SUMMARY OF THE INVENTION

The invention comprises a method and system for distributing an electronic publication. The invention further comprises customizing the electronic publication and including customized advertising targeted at a particular consumer. In accordance with the method of distributing the electronic publication, an electronic publication is retrieved from storage. The electronic publication is delivered to the consumer by electronically sending it to the consumer's electronic mail address.

The electronic publication may also be customized. In accordance with the invention, advertising in the electronic publication may be customized by storing a consumer profile in a database associated with a particular consumer and including a number of profile data items. A database of content items and advertising items is created for possible inclusion in the electronic publication. At least some of the advertising items are targeted advertising items. Each of the targeted advertising items has an inclusion criterion that may be met or unmet depending upon the value of one or more profile data items. The electronic publication is created for the consumer in a customized manner and contains at least some of the content items and at least one targeted advertising item where the inclusion criterion for that advertising item has been met.

The invention has several important technical advantages. Because the electronic publication can be ordered electronically, the consumer's order can be taken without human intervention, thus reducing the cost of ordering a publication. After ordering, the electronic publication is delivered to the consumer's electronic mail address, allowing the consumer to avoid paying dial-up service charges while reading the electronic

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publication. The publisher of the electronic publication also avoids the costs of printing and postage. The invention uses a consumer's phone line only for the time required to download the electronic publication from the consumer's electronic mailbox (E-mail) to his own computer. Because the consumer obtains his own copy of the electronic publication, he can read it as many times as he wants without incurring the additional costs of reading the publication on-line. The invention also allows electronic subscriptions to be created, where the consumer receives the electronic publication on a periodic basis. Renewal notices may automatically be sent to the consumer's electronic mail address, saving the costs of both printing and postage for renewal notices.

The invention allows a publisher to create a customized publication for each individual consumer. Both the articles and advertising in an electronic publication may be customized for the particular consumer that is going to read the electronic publication. customization may be based on a consumer profile, including both demographic data about the consumer, such as the consumer's age, sex, occupation, marital status, zip code, etc. The consumer profile may also include personal items reflecting personal data about the consumer, such as whether the consumer enjoys traveling, particular types of food, particular types of drinks, particular types of automobiles, particular types of leisure activities, etc. For specialized magazines such as magazines about a consumer's hobby, the consumer profile can be even more detailed.

By using a computer, the publisher can create a customized publication that targets advertising directly at those consumers who are most likely to respond to the advertising. This feature of the invention makes

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electronic publications more valuable to advertisers, as they can target their advertisements at specific consumers. In addition, the publisher can bill the advertiser based upon the number of times that the advertisement is included in an electronic publication, allowing overall advertising costs to decrease. The invention even allows a consumer to order a product or service using the electronic publication itself.

BRIEF DESCRIPTION OF THE DRAWINGS

For a more complete understanding of the present invention and the advantages thereof, reference is now made to the following descriptions taken in conjunction with the accompanying drawings in which:

FIGURE 1 illustrates a block diagram of a system for distributing an electronic publication in accordance with the teaching of the present invention;

FIGURE 2 illustrates a diagram of a general purpose computer that can be used in the system of FIGURE 1;

FIGURE 3 illustrates a diagram of an embodiment of a fulfillment engine that can be used with the system of FIGURE 1;

FIGURE 4 illustrates a diagram of an embodiment of a publication engine that can be used with the system of FIGURE 1;

FIGURE 5 illustrates a diagram of a reading application that can be used with the system of FIGURE 1;

FIGURE 6 illustrates a flow chart of a method for distributing an electronic publication in accordance with the invention; and

FIGURE 7 illustrates a flow chart for a method for generating a customized electronic publication, including customized advertising.

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DETAILED DESCRIPTION OF THE INVENTION

The preferred embodiment of the present invention and its advantages are best understood by referring to FIGURES 1-7 of the drawings, like numerals being used for like and corresponding parts of the various drawings.

FIGURE 1 illustrates an electronic publication distribution system 10 constructed in accordance with the teachings of the invention. In this embodiment, a consumer's computer 12 is connected to a publisher's computer 14 through the Internet 16. Although the computers are connected by the Internet, a computer network or dial-up line could be used to connect consumer's computer 12 to publisher's computer 14. The invention allows electronic delivery of a publication, which may be customized, to a consumer's computer 12.

Consumer's computer 12 includes Internet access and E-Mail application 18 and reading application 20. As discussed below, Internet access and E-Mail application 18 may be used either to order an electronic publication or to receive the ordered publication, or both. Reading application 20 is used to read the electronic publication received by Internet access and E-Mail application 18.

Publisher's computer 14 is executing a fulfillment engine 22 and publication engine 24, the engines being linked together. The fulfillment engine handles the interface with consumers through the Internet, keeps track of consumer profile information, processes orders from consumers, times the delivery of electronic publications, sends renewal notices to consumers, handles billing of the consumer, obtains demographic information based upon the consumer profile, and interfaces with the publication engine. The structure and operation of fulfillment engine 22 will be described more fully below. Publication engine 24 receives a command from fulfillment engine 22 to create an electronic publication.

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Publication engine 24 then creates the electronic publication and returns it to fulfillment engine 22 for delivery to a consumer. The structure and operation of publication engine 24, as well as the structure and operation of electronic publication distribution system 10 will be described more fully below.

FIGURE 2 illustrates a general purpose computer 26 that may be used for either consumer's computer 12 or publisher's computer 14 in FIGURE 1. General purpose computer 26 may be adapted to execute any of the wellknown MSDOS, PCDOS, OS2, UNIX, MOTIF, MAC-OS™, X-WINDOWS, and WINDOWS $^{\mathbf{M}}$, or other operating systems. General purpose computer 26 comprises processor 28, random access memory (RAM) 30, read only memory (ROM) 32, mouse 34, keyboard 36, and input/output devices, such as printer 40, disk drives 38, display 42, and communications link The present invention includes computer software that may be stored in RAM 30, ROM 32, or disk drives 38 and may be executed by processor 28. Communications link 44 is connected to the Internet 16, but could be connected to a telephone line, an antenna, a gateway, or any other type of communications link. Disk drives 38 may include a variety of types of storage media such as, for example, floppy disk drives, hard disk drives, CD ROM drives, or magnetic tape drives. Although one general purpose computer 26 has been illustrated, other types of computers could be used without departing from the scope of the invention.

FIGURE 3 illustrates a block diagram of an embodiment of a fulfillment engine 22 that can be used in the system of FIGURE 1. Fulfillment engine 22 is controlled by an event processor 46, which receives and generates events and is connected to database engine 48, timing engine 50, billing and demographics engine 52, publishing engine interface 54, Internet interface 56,

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and web page controller 58. Database engine 48 is also connected to storage 60. The structure of fulfillment engine 22 may vary from the structure illustrated in Figure 3 and various functions may be added or omitted without departing from the scope of the invention.

Fulfillment engine 22 preferably handles two main tasks: electronic publication order processing and electronic publication delivery. The operation of fulfillment engine 22 will be described more fully below. To aid in understanding the operation of the invention, however, an initial description of the function of each component of fulfillment engine 22 will now be provided.

Event processor 46 processes and generates events related to the method for distributing electronic publications. When a consumer orders an electronic publication using Internet access and E-mail application 18, event processor 46 receives an event indicating that a consumer desires to order through Internet interface The consumer makes an order using an Internet web page controlled by publisher's computer 14 and accessed by the computer through Internet access and E-mail application 18. Web page controller 58 handles the control of the web page and obtains the relevant information from the consumer. The consumer profile and order information is stored in storage 60 using database engine 48. The consumer profile information and order information may be stored in the same database or in separate databases. Database engine 48 also controls databases stored on storage 60 relating to billing and demographics. Billing and demographics engine 52 handles the billing of a consumer for an order of an electronic publication. This engine also may obtain demographic information about the consumer based on other information provided by the consumer. For example, billing and demographics engine 52 may estimate the consumer's income

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based upon average income statistics for the consumer's zip code.

After the order has been received, event processor 46 also handles the processing of the order. Timing engine 50 is used to create an order event. If the consumer has ordered an electronic publication that is to be delivered immediately, timing engine 50 generates an event that causes immediate delivery. Otherwise, if the consumer has ordered a periodical electronic publication, timing engine 50 will create events at the appropriate time intervals when delivery of the electronic publication is proper. Timing engine 50 also will automatically generate renewal notices to the consumer when a consumer subscription to a periodical electronic publication is ready to be renewed.

Timing engine 50 generates an event that tells event processor 46 that it is time to retrieve and deliver an electronic publication to a consumer. Event processor 46 then alerts publishing engine interface 54 to cause publishing engine 24 to create an electronic publication for the consumer. Publishing engine interface 54 then generates an event received by event processor 46 when the electronic publication has been prepared by publishing engine 24. At this point, event processor 46 accesses the consumer's electronic mail address using database engine 48 and sends the publication to the consumer's electronic mail address using Internet interface 56 to access the Internet 16. The consumer downloads the electronic publication using Internet access and E-mail application 18.

Although one embodiment of a fulfillment engine 22 has been described, other embodiments could be used without departing from the scope and teachings of the invention. In addition, the functions of fulfillment engine 22 and publication engine 24 could be combined.

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The functions performed by fulfillment engine 22 could also be performed by a number of additional engines or processes.

FIGURE 4 illustrates an embodiment of a publication engine 24 that can be used in the system of FIGURE 1. Publication engine 24 comprises event processor 62, fulfillment engine interface 64, publication creation engine 66, content/advertising database engine 68, and storage 70. Event processor 62 connects to each of the engines and the interface. Content/advertising database engine 68 is connected to storage 70. Although storage 70 is separate from storage 60 in this embodiment, storage 60 and storage 70 could be combined.

Publication engine 24 is used to create a customized electronic publication for a consumer as well as to retrieve standard (uncustomized) publications for delivery to the consumer. Although the operation of publication engine 24 will be described more completely below, an overview of the function of each component will now be provided.

Event processor 62 controls publication engine 24 and receives and generates events from the components of publication engine 24 to which it is connected. Fulfillment engine interface 64 receives requests from fulfillment engine 22 to retrieve a publication or generate a customized publication. After the publication has been prepared or retrieved, fulfillment engine interface 64 returns the electronic publication to fulfillment engine 22. Publication creation engine 66 is used to create a customized electronic publication for a user. This customized publication may include customized advertising as described more fully below. Content/advertising database engine 68 is used to access content and/or advertising stored in storage 70. Content may include text, graphics, video, sound, music, etc., stored

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in storage 70. Similarly, the advertising stored in storage 70 may comprise text, graphics, video, sound, music, etc. Content/advertising database engine 68 is used to retrieve publications, and/or portions of publications. Publication creation engine 66 uses content/advertising database engine 68 through event processor 62 to construct a customized electronic publication.

Although one embodiment of publication engine 24 has been illustrated, other embodiments could also be used. Various functions performed by publication engine 24 could be omitted, performed by a separate process, or combined with other functions.

FIGURE 5 illustrates an embodiment of reading application 20 that may be used in the system of FIGURE 1. Reading application 20 comprises event processor 72 connected to user interface 74, file interface 76, compression engine 80, video processing engine 82, text processing engine 84, sound processing engine 86, and reader engine 88. File interface 76 is connected to storage 78.

Reading application 20 allows a consumer to read, view, listen to, interact with or otherwise use an electronic publication. Event processor 72 processes and generates events and performs all other functions required to control reading application 20. Event processor 72 may be used to control the display of advertising as described below. After the owner of consumer's computer 12 has received an electronic publication in his electronic mailbox, he may download that electronic publication to consumer's computer 12 using Internet access and E-mail application 18. The consumer may store the electronic publication in storage 78. When the consumer desires to use the electronic publication, he executes reading application 20 which

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accesses the stored electronic publication through file interface 76. The invention allows the publisher of the electronic publication to decide whether to allow the consumer to export portions of the electronic publication for their personal use. This control could be item by item or apply to the entire publication. Reading application 20 controls these options. This feature of the invention allows a consumer to save specific items that they particularly desire to save. The consumer could even create libraries of items related to a particular topic. This feature would also allow a consumer to save only those items of particular interest, which may save storage space.

Although this embodiment uses E-mail for delivery of electronic publications, a publication could also be downloaded directly to the consumer's computer or to a predetermined location to which the computer's processor is connected. The publication could be downloaded or sent immediately, or at a later time, depending upon the nature of the system and/or the publication.

The text and video are displayed on a display of consumer's computer 12 using user interface 74. User interface 74 is also used to send sound from the electronic publication to speakers connected to a consumer's computer 12. If desired, the publisher of the electronic publication can cause reading application 20 to generate a message from consumer's computer 12 to publisher's computer 14 indicating that a consumer has accessed the electronic publication, or even a particular item in the electronic publication such as a content item or an advertisement. This feature of the invention could be used by advertisers and publishers to monitor consumer response to advertisements or content items. Publishers might even bill for advertising based upon a consumer's viewing of the advertisement.

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To reduce the size of the electronic publication for transmission to the consumer's electronic mailbox, a publisher may use compression techniques to compress the electronic publication file into a smaller file. publisher uses compression, compression engine 80 may be used to decompress the compressed electronic publication. In addition, a publisher may also use specialized compression techniques for text, video, and/or sound. such compression techniques are used, decompression may be accomplished by either compression engine 80 or using video processing engine 82, text processing engine 84, and sound processing engine 86 for decompressing of video, text, and sound, respectively. Graphics may be decompressed and processed by video processing engine 82. Video processing engine 82, text processing engine 84, and sound processing engine 86 handle the processing of video, text, and sound, respectively, for output through user interface 74.

Reader engine 88 may be used to transform the text of an electronic publication into audible sound so that a consumer can command consumer's computer 12 to read the text of the electronic publication aloud to the consumer. This feature may allow a consumer to do other things such as exercise, while consumer's computer 12 reads the text of an electronic publication to the consumer. addition, the blind may use this feature rather than purchasing braille editions of the electronic publication. Those with impaired vision may use this feature rather than purchasing large type editions of the electronic publication. Presumably, this feature will allow the blind and vision impaired to obtain a publication at less cost than a braille or large print edition.

FIGURE 6 illustrates a flow chart of a method for distributing an electronic publication using the

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electronic publication distribution system 10 of FIGURE 1. This figure illustrates the operation of the embodiment of the invention illustrated in FIGURE 1. method begins in step 90 as fulfillment engine 22 and publication engine 24 are initialized and awaiting an order from a consumer. In step 92, a consumer using consumer's computer 12 accesses the Internet web page controlled by publisher's computer 14 through Internet Fulfillment engine 22 interacts with the consumer using the web page controlled by web page controller 58. At some point during this interaction, the consumer indicates a desire to order an electronic publication. At this point, web page controller 58 gathers some preliminary information such as the consumer's name, address and telephone number and the publication that the consumer desires to order.

Next, in step 94, web page controller 58 accesses a database of customers stored on storage 60 using database engine 48. Web page controller 58 uses this database to determine whether this particular consumer has ordered a publication before. If the consumer has ordered before, the consumer is allowed to update their consumer profile in step 96. The consumer profile is stored on storage 60 and accessed by web page controller 58 through database engine 48.

After obtaining any updates of the consumer profile, web page controller 58 obtains billing information and generates an event that is processed by event processor 46 and passed to billing and demographics engine 52 in order to generate a bill for the consumer. For example, billing and demographics engine 52 may automatically dial up a credit card company computer and perform a credit card transaction. Alternatively, billing and demographics engine 52 can generate an invoice that is delivered by the United States mail or by electronic mail

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to the consumer. If the consumer has updated the consumer profile, billing and demographics engine 52 may also use portions of the consumer profile to access a demographics database and update demographic information contained in the consumer profile. For example, billing and demographics engine 52 may calculate an estimate of the consumer's income based upon the zip code in which the consumer resides. Thus, the publisher could estimate the consumer's income without having to ask the consumer questions about his income. The method then continues in step 100.

If the consumer had not ordered a publication from the publisher before when the check was made in step 94, then step 98 is executed. In step 98, a consumer profile is generated based upon information provided by the consumer. The consumer profile may include both demographic items reflecting demographic data about the consumer and personal items reflecting more personal data about the consumer. Demographic data may include the consumer's age, sex, marital status, number of children, age of children, occupation, city of residence, state of residence, zip code, etc. Personal items may include the consumer's vacation preferences, food preferences, automobile preferences, hobbies, leisure activities, etc. In the case where a consumer orders an electronic publication dealing with a specific subject such as the consumer's hobby, the consumer profile may include more Thus, even if the consumer has detailed information. ordered an electronic publication before, the consumer may need to provide additional information in step 96 as to additional consumer profile items. For example, if the electronic publication is an electronic magazine about bicycling, the consumer may be asked to provide the number of bicycles owned, the maker of the bicycles, the maker of various parts on the bicycles, the bicycle

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accessories owned by the consumer, the most common uses that the consumer makes of a bicycle, whether the consumer takes bicycling vacations, etc. The publisher of the electronic publication may then use this consumer profile data to create a customized electronic publication for the consumer, including either customized content, customized advertising, or both.

Continuing in step 98, after obtaining the consumer profile information, billing information is obtained and the consumer is billed using billing and demographics engine 52 as was described for step 96. In addition, the demographics database is accessed and consumer profile updated as was done in step 96.

Next, in step 100, it is determined whether the consumer has ordered a periodical or not. In the case where the consumer has not ordered a periodical, the consumer has likely ordered an electronic book, video, or sound recording. The particular item ordered by the consumer is delivered to the consumer in step 102 using The publication the consumer's electronic mail address. may optionally be sent return receipt requested to provide the publisher with electronic verification that the publication has indeed been delivered to or received by the consumer. Delivery is accomplished through an event generated by web page controller 58 to event processor 46. Event processor 46 processes the event and generates a request to publishing engine 24 through publishing engine interface 54 to retrieve the electronic publication ordered by the consumer. After publication engine 24 retrieves the appropriate electronic publication through content/advertising database engine 68, it returns the electronic publication to fulfillment engine 22 through fulfillment engine interface 64. Fulfillment engine 22 receives the electronic publication through publishing engine interface 54 and sends the

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electronic publication to the consumer's electronic mail address using Internet interface 56. Event processor 46 may also generate an event to cause database engine 48 to make a record that the electronic publication was delivered to the consumer. Alternatively, a return receipt may be requested. The electronic publication may be sent with such a request and the receipt notice is received by event processor 46 through Internet interface 56. The receipt may be stored in storage 60 using database engine 48. The procedure then terminates in step 104.

If, however, the consumer has ordered a periodical electronic publication, web page controller 58 generates an event that event processor 46 passes to timing engine 50. In step 106, timing engine 50 sets up a timing mechanism to cause delivery of the electronic publication at the proper intervals to the consumer. For example, if the consumer has ordered a monthly publication, timing engine 50 will cause events to be generated each month when the electronic publication is ready for delivery. These events will cause event processor 46 to retrieve the publication from publication engine 24 and send the publication to the consumer using the consumer's electronic mail address. The particular periodical electronic publication sent to the user may or may not be a customized electronic publication.

Timing engine 50 generates an event for event processor 46 at the appropriate time in step 108 and causes the publication to be delivered by electronic mail. Timing engine 50, upon delivery of an electronic publication, also determines whether it is time to send a renewal notice to the consumer because the consumer's subscription to the electronic publication either has lapsed or is about to lapse. If it is time for a renewal notice to be sent, timing engine 50 causes that notice to

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be sent to the consumer's electronic mail address in step 112. The message is sent using Internet interface 56. The message may optionally be sent return receipt requested to provide the publisher with electronic verification of receipt. At step 113, if a return receipt is requested, then in step 115, a return receipt request is generated. The procedure continues in step 114 if no return receipt was requested in step 113 or after generation of a return receipt in step 115. engine 50, in step 114, determines whether the periodical is the last issue in the consumer subscription. If not, timing engine 50 sets up another event and subsequently delivers the next issue of the electronic publication in step 108. If the issue is the last issue in the consumer subscription, timing engine 50 disables any further delivery to the consumer and the process terminates at step 116.

Although this aspect of the invention has been described with respect to the embodiment illustrated in FIGURE 1 and the method illustrated in FIGURE 6, various alternatives may be used without departing from the scope of the invention. For example, the delivery methods of the invention may be used whether the consumer's order is obtained electronically as in the illustrated embodiment, or by a human operator over the telephone. Also, the electronic publication delivered to the consumer may be any type of electronic publication such as an electronic magazine, a multimedia publication, a video, a sound recording, etc. The electronic publication may or may not be customized for a particular consumer. In the case of a customized publication, either the content, the advertising, or both may be customized for the consumer based upon the consumer profile.

FIGURE 7 illustrates a flow chart of a method that can be used to create a customized electronic publication

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for a particular consumer. In this embodiment, the advertising in the electronic publication is customized for the consumer. Alternatively, the content of the electronic publication could also be customized using a similar method without departing from the scope of the invention.

The procedure begins in step 118 as the publication engine 24 is initialized and awaits requests from fulfillment engine 22 to prepare a customized electronic publication. In step 120, publication engine 24 receives a request from fulfillment engine 22 to prepare a publication for a particular consumer. In step 122, the consumer profile information for that consumer is retrieved. The consumer profile information may either be retrieved through a request from publication engine 24 to fulfillment engine 22 or by publication engine 24 directly. Alternatively, fulfillment engine 22 may pass the consumer profile information to publication 24, along with the request to prepare a publication for that consumer.

Then, in step 124, publication engine 24 assembles the content items for the electronic publication. Publication creation engine 66 retrieves these items from storage 70 using content/advertising database engine 68. The retrieved content items may be temporarily stored in another location in storage 70 or in memory of publisher's computer 14. Next, in step 126, the process of putting advertising items into the electronic publication begins. Publication creation engine 66 retrieves an advertising item inclusion criterion from a database stored in storage 70. The advertising item inclusion criterion contains a series of conditions tied to profile data items in a consumer profile. If all of the conditions in the inclusion criterion are met, then

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the advertising item will be included in the electronic publication.

For some advertising items, the advertising item inclusion criterion will be met for all copies of the electronic publication. In other words, the advertisement will be included in the electronic publication, regardless of the consumer profile. Certain advertisers may wish all subscribers to an electronic publication to receive an advertisement rather than targeting the advertisement towards particular consumers. A publisher may charge a different rate for including such an advertisement in an electronic publication.

In step 128, it is determined whether the advertisement is a targeted advertisement or not. If not, then the item is included in the electronic publication in step 136. If the advertising item under consideration is a targeted advertising item, then, in step 130, it is determined whether the inclusion criterion for that advertising item has been met. If not, the item is rejected in step 138 and the procedure continues in step 134. If the inclusion criterion has been met, then, in step 132, it is determined whether the maximum advertising allowed for an electronic publication has been reached.

A publisher may desire to limit the total amount of advertising that may be included in a particular electronic publication. Consumers may be dissatisfied if the total amount of advertising grows too large. Because many of the advertising items included in an electronic publication may be targeted advertising items, a publisher may have a difficult time determining exactly how much advertising information will be included within a particular consumer's electronic publication.

Accordingly, this embodiment of the invention checks to see whether a maximum amount of advertising has already

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been included in the electronic publication. If so, then the item is rejected in step 138. If not, then the item is included in the electronic publication in step 136. Because a publisher may control the order in which publication engine 24 processes targeted advertising items, a publisher may charge a different rate to an advertiser depending upon where that advertiser's advertisement is processed in the list. Those advertisements processed towards the top of the list could command a higher price than those processed towards the bottom of the list.

After step 136 or step 138, it is determined in step 134 whether there are more advertising items in the advertising item database to be processed. If not, then the customized electronic publication is completed and delivered to the fulfillment engine in step 140 and the process terminates in step 142. If there are more items to process, then the procedure continues at step 126 with the retrieval of the next advertising item inclusion criterion.

It should be noted that there are various options for how advertising items are presented to a consumer who is using the customized electronic publication. A publisher may desire to give the user the option to suppress certain advertising. If the advertising is suppressible, the publisher may charge an advertiser a lower fee for inclusion of the advertising in an electronic publication. Thus, advertising could be globally suppressible or suppressible on an item-by-item basis.

The advertising may appear on "pages" of the electronic publication if the electronic publication comprises primarily textual information and still-photos or graphics. Passing a pointer over portions of the advertisement could trigger the presentation of a

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multimedia item. Also, reading application 20 could cause an advertisement to appear after the electronic publication has been in use for a predetermined amount of time. For example, reading application 20 might cause advertising to appear every 15 minutes. Data could be retained by reading application 20 such that advertising timing carries over to the next time that the consumer uses the electronic publication. For example, if the consumer uses the publication for only 10 minutes, then an advertisement may be displayed after only 5 minutes of use when the consumer next uses the publication. This feature would prevent a consumer from trying to avoid viewing advertising by terminating reading application 20 each time an advertisement was about to be displayed.

Advertising items might also be linked to specific content items and displayed upon the access of a particular content item by a consumer. Similarly, advertising might appear when a consumer accesses a particular piece of information within a content item. Other methods of triggering the advertising items to be output to users of the electronic publication could be used without departing from the scope of the invention. Event processor 72 controls the presentation of advertising to a consumer in this embodiment.

The invention also provides an additional benefit to advertisers. Reading application 20 allows an advertiser to design an advertisement such that the consumer can input information indicating either that he desires to obtain more information about a product or service or that he desires to order a product or service. A request for more information causes additional information to be output to the consumer from the reading application 20. If the consumer desires to order a product or service, reading application 20 can automatically dial up a computerized order processing service for the product or

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service or send an electronic mail message to the advertiser such that the electronic mail message orders the product or service automatically. This feature of the invention provides additional benefits to the advertiser and makes purchasing products and services easier for a consumer.

The invention may also be used to increase sales of other publications sold by the publisher. For example, fulfillment engine 22 may give a consumer the option to purchase back issues of the electronic publication.

Also, based upon the consumer profile input by the consumer, fulfillment engine 22 may offer the consumer additional electronic publications based upon one or more profile data items in the consumer profile.

The distribution system of the invention could also be used to distribute updated versions of reading application 20 to consumers. To accomplish this feature, fulfillment engine 22 may deliver the updated version of reading application 20 to the consumer's electronic mail address on the Internet 16. The consumer would then download the new version of the reading application 20 to the consumer's computer 12 and replace the old version of reading application 20.

Although the present invention has been described in detail, it should be understood that various changes, substitutions, and alterations can be made hereto without departing from the spirit and scope of the invention as defined by the appended claims.

WHAT IS CLAIMED IS:

1. A method for customizing advertising in an electronic publication, comprising:

storing a consumer profile in a database, the consumer profile associated with a consumer and comprising a plurality of profile data items;

creating a database of content items and advertising items, at least some advertising items comprising targeted advertising items, each targeted advertising item associated with an inclusion criterion, wherein a decision as to whether the inclusion criterion for a particular advertisement has been met depends upon the value of one or more profile data items;

creating an electronic publication for a particular consumer, the electronic publication comprising at least some of the content items and at least one targeted advertising item where the inclusion criterion for that targeted advertising item has been met.

2. The method of Claim 1, wherein the profile data items include demographic items reflecting demographic data about the consumer;

wherein the profile data items include personal

items reflecting personal data about the consumer; and
 wherein the inclusion criterion for a targeted
advertising item may depend upon the value of a
demographic item, a personal item, or both a demographic

3. The method of Claim 1, wherein the electronic publication further comprising at least one advertising item that is not a targeted advertising item.

item and a personal item.

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4. The method of Claim 1, further comprising: obtaining an order for the electronic publication from the consumer;

prompting the consumer, in response to the order, for information about the consumer, the information used to create the consumer profile;

receiving the information from the consumer; and creating the consumer profile using the information.

5. The method of Claim 1, further comprising: obtaining an order for the electronic publication from the consumer;

retrieving the consumer's consumer profile in response to the order;

prompting the consumer for changes in the consumer's consumer profile;

receiving changes from the consumer; and updating the consumer profile based upon the changes.

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- 6. The method of Claim 1, wherein the electronic publication comprises a plurality of pages and a targeted advertising item appears on at least one of the pages.
- 7. The method of Claim 1, wherein the electronic publication outputs an advertising item to a user of the electronic publication after the passage of a predetermined amount of time during which the electronic publication has been in use.

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8. The method of Claim 1, wherein the electronic publication outputs an advertising item to a user of the electronic publication in response to the access of a specific content item.

- 9. The method of Claim 1, wherein the publisher of the electronic publication can designate an advertising item as suppressible or not suppressible by a user of the electronic publication.
- 10. The method of Claim 1, further comprising: giving a user of the electronic publication the option to order a product or service advertised in an advertising item;
- electronically ordering the product or service in response to input by the user of the electronic publication.
- 11. The method of Claim 1, further comprising
 downloading the electronic publication to a predetermined location associated with the consumer's computer.

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12. A method for distributing an electronic publication, comprising:

retrieving an electronic publication from storage; and

- delivering the electronic publication to a consumer by electronically sending the electronic publication to the consumer's electronic mail address.
- 13. The method of Claim 12, further comprising:

 obtaining billing information from the consumer; and billing the consumer in response to the billing information.
 - 14. The method of Claim 12, wherein the electronic publication is a periodical electronic publication that is published once in a predetermined period and wherein an order comprises a subscription for a fixed number of issues of the electronic publication, the delivering step further comprising:

delivering the electronic publication to the consumer during each predetermined period until the subscription runs out.

15. The method of Claim 14, further comprising: generating a renewal notice indicating that the consumer's subscription will expire; and

sending the renewal notice electronically to the consumer's electronic mail address.

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- 16. A system for distributing an electronic publication, comprising:
 - a computer network;
- a consumer computer coupled to the computer network and associated with a consumer;
- a publisher computer connected to the computer network and operable to retrieve an electronic publication, and deliver the electronic publication to the consumer by electronically sending the electronic publication to the consumer's electronic mail address.
- 17. The system of Claim 16, wherein the electronic publication is delivered to the consumer in a compressed format.
- 18. The system of Claim 16, further comprising:
 an application running on the consumer computer, the
 application operable to read the electronic publication
 to the consumer by transforming text contained in the
 electronic publication into audible sound.
- 19. The system of Claim 16, further comprising:
 an application running on the consumer computer, the
 application operable to control the export of items of
 the electronic publication.
- 20. The system of Claim 16, the publisher computer further operable to:
- store a consumer profile in a database, the consumer profile associated with the consumer and comprising a plurality of profile data items;

store a database of content items and advertising items, at least some advertising items comprising targeted advertising items, each targeted advertising item associated with an inclusion criterion, wherein a

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decision as to whether the inclusion criterion for a particular advertisement has been met depends upon the value of one or more profile data items; and

create the electronic publication for the consumer, the electronic publication comprising at least some of the content items and at least one targeted advertising item where the inclusion criterion for that targeted advertising item has been met.

- 21. The system of Claim 16 wherein the publisher computer is further operable to receive an order for an electronic publication from the consumer, the order including the consumer's electronic mail address.
 - 22. The system of Claim 21 wherein the order is received from the consumer electronically.
 - 23. The system of Claim 21, wherein the electronic publication is a periodical electronic publication that is published once in a predetermined period and wherein the order comprises a subscription for a fixed number of issues of the electronic publication, the publisher computer further operable to deliver the electronic publication to the consumer during each predetermined period until the subscription runs out.

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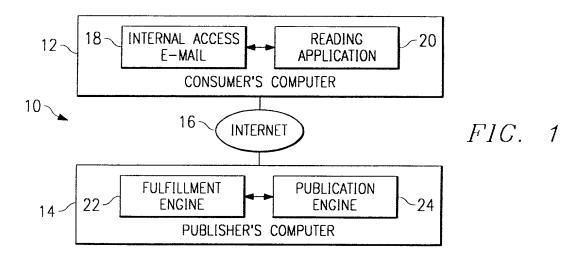
ELECTRONIC PUBLICATION DISTRIBUTION METHOD AND SYSTEM

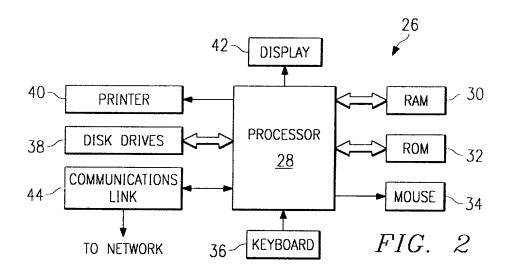
ABSTRACT OF THE DISCLOSURE

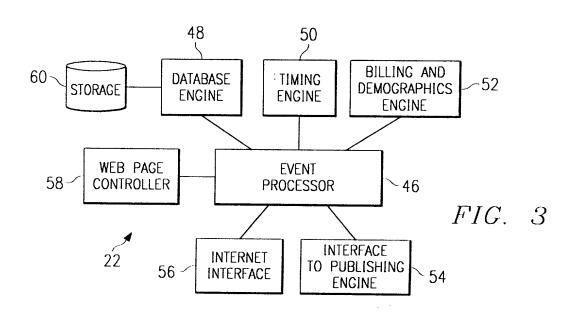
A method and system for distributing an electronic publication allows the distribution of customized publications, including customized advertising, customized content, or both. In accordance with the method for distributing an electronic publication, an electronic publication is retrieved from storage. The electronic publication is delivered to the consumer by electronically sending the electronic publication to the consumer's electronic mail address.

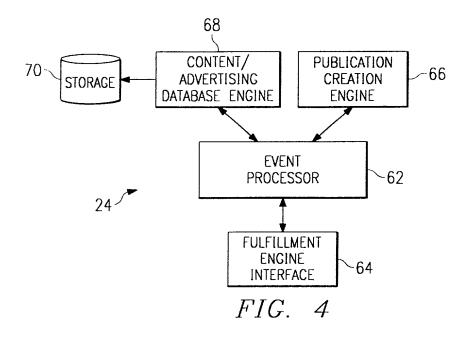
In accordance with another aspect of the invention, the electronic publication may include customized advertising. A consumer profile associated with the consumer is stored in a database and comprises a plurality of profile data items. A database of content items and advertising items is created, including at least some targeted advertising items. Each targeted advertising is associated with an inclusion criterion wherein a decision as to whether the inclusion criterion for a particular advertisement has been met depends upon the value of one or more profile data items. electronic publication is created and comprises some content items and at least one targeted advertising item. The targeted advertising item is included because the inclusion criterion for that targeted advertising item has been met.

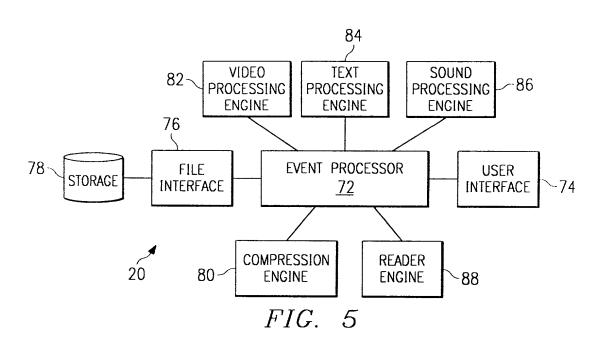
35-95-010 (014208.1064) 1 of 4



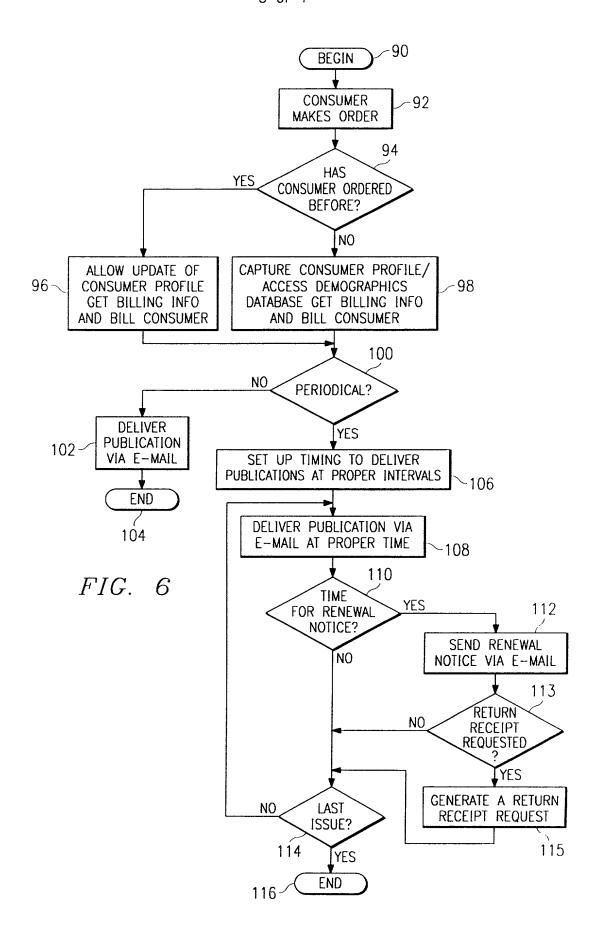


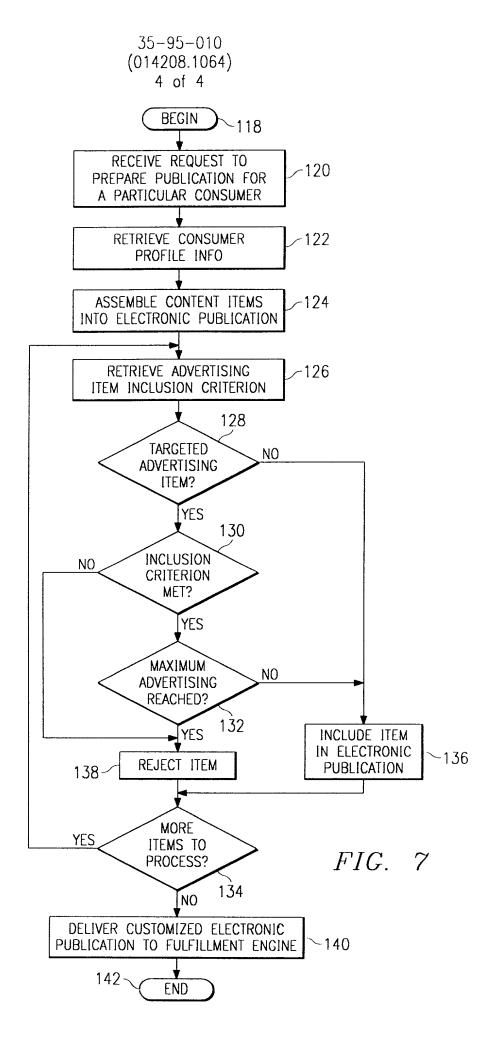






35-95-010 3 of 4





DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name, that I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention or design entitled ELECTRONIC PUBLICATION DISTRIBUTION METHOD AND SYSTEM, the specification of which is attached hereto; that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above; and that I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application(s) for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

			Priority
		Date	Claimed
<u>Number</u>	Country	<u>Filed</u>	(Yes) (No)
None			

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application(s) in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56 which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

Application		
Serial Number	_Date Filed_	Status

None

I hereby appoint:

L. Joy Griebenow

Reg. No. 33,704

of Electronic Data Systems Corporation, and the following

Jerry W. Mills	Reg. No. 23,005
Robert M. Chiaviello, Jr.	Reg. No. 32,461
Ann C. Livingston	Reg. No. 32,479
William N. Hulsey III	Reg. No. 33,402
Thomas R. Felger	Reg. No. 28,842
Charles S. Fish	Reg. No. 35,870
Thomas A. Gigliotti	Reg. No. 37,579
Robert H. Johnston III	
Wei Wei Jeang	Reg. No. 37,364
Kevin J. Meek	Reg. No. 33,305
Anthony E. Peterman	Reg. No. 33,738
Barton E. Showalter	Reg. No. 38,270
David G. Wille	Reg. No. 38,302
	Reg. No. 38,363
Robert J. Ward	Reg. No. 38,652
Christopher J. Rourk	Reg. No. 39,348
Philip W. Woo	Reg. No. 39,880
Bradley P. Williams	Reg. No. 40,227
Terry J. Stalford	Reg. No. 39,522
Rodger L. Tate	Reg. No. 27,399
Scott F. Partridge	Reg. No. 28,142
James G. Gatto	Reg. No. 32,694
James B. Arpin	Reg. No. 33,470
James Remenick	Reg. No. 36,902
Jay B. Johnson	Reg. No. 38,193
Christopher C. Campbell	Reg. No. 37,291
Jerome T. Tao	Reg. No. 37,247
Stacy B. Margolies	Reg. No. 39,760
	,

all of the firm of Baker & Botts, L.L.P., my attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith, and to file and prosecute any international patent applications filed thereon before any international authorities.

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Send Correspondence To:

Direct Telephone Calls To:

L. Joy Griebenow

L. Joy Griebenow

Electronic Data Systems

at (214) 605-5567

Corporation

Attorney Docket No. 35-95-010

5400 Legacy Drive, H3-3A-05

Plano, Texas 75024

I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Full name of first inventor:

Dale S. Howard

Inventor's signature

Date

Residence (City, County, State)

Citizenship

Post Office Address

Clive, Polk County, Iowa

United States of America

9098 Carpenter Circle Drive

Clive, Iowa 50325

Full name of second inventor:	L. Joy Griebenow
Inventor's signature Date Residence (City, County, State)	June 30, 1996 Plano, Collin County, Texas
Citizenship	United States of America
Post Office Address	1400 Blackburn Lane Plano, Texas 75025
Full name of third inventor:	Kim Lenger
Inventor's signature	Kim Lenger
Date	JUNE 26. 1996
Residence (City, County, State)	Knoxville, Marion County, Iowa
Citizenship	United States of America
Post Office Address	1558 Hwy. T 15

Knoxville, Iowa 50138

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:)
Howard, Dale S. et al.)
)
Serial No.: 08/673,986) Group Art Unit 2762
)
Filed: July 1, 1996) Examiner: Romain Jeanty
)
For: Electronic Publication Distribution)
Method and System)

Honorable Assistant Commissioner for Patents and Trademarks Washington, D.C. 20231

Dear Sir:

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And the first has first

ASSOCIATE POWER OF ATTORNEY

Please add T. Murray Smith, Registration No. 30,222, as an associate attorney of record in the subject patent application. The undersigned is presently a principal attorney of record.

Please continue to address all correspondence in the subject application to:

L. Joy Griebenow, Esq.
ELECTRONIC DATA SYSTEMS CORPORATION
5400 Legacy Drive
M/S H3-3A-05
Plano, Texas 75024
(972) 605-5567

Respectfully submitted, BAKER & BOTTS, L.L.P. Attorneys for Applicants

Terry J. Stalford Reg. No. 39,522

Date: May 18, 1998